AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions and listings of claims in the application.

1. (Original) A method of preparing an ethylene polymerization catalyst, comprising:

(a) (a1) reacting magnesium halide with alcohol in the presence of a hydrocarbon solvent,

(a2) reacting the resulting product solution from the step (a1) with dialkylmagnesium, and

(a3) reacting the resulting product from the step (a2) with alkyl halide or silane halide, to give a magnesium complex;

(b) reacting the magnesium complex with a titanium compound, to give a magnesium-titanium complex; and

(c) reacting the magnesium-titanium complex with an electron donor.

2. (Original) The method as set forth in claim 1, wherein the magnesium halide is a compound represented by a formula of MgX_2, in which X is a halogen element belonging to Group VII in the periodic table.

3. (Original) The method as set forth in claim 1, wherein the alcohol is a compound represented by a formula of R^1OH, in which R^1 is an alkyl radical having 1 to 10 carbons.

4. (Original) The method as set forth in claim 1, wherein the dialkylmagnesium is a compound represented by a formula of MgR^2R^3 or $MgR^2R^3 \cdot (AlR^4_3)$, in which R^2, R^3 and R^4, which are the same or different, respectively are an alkyl radical having 1 to 10 carbons.

5. (Original) The method as set forth in claim 1, wherein the alkyl halide is a compound represented by a formula of R^5X, in which R^5 is an alkyl radical having 1 to 5 carbons, and X is a halogen element belonging to Group VII in the periodic table.

6. (Original) The method as set forth in claim 1, wherein the silane halide is a compound represented by formula of $R^5_mSiX_{4-m}$, in which R^5 is an alkyl radical having 1 to 5 carbons, X is a halogen element belonging to Group VII in the periodic table, and m is an integer ranging from 0 to 3.

7. (Currently Amended) The method as set forth in claim 1, wherein the titanium compound is a compound represented by a formula of TiX_4, in which X is a halogen element belonging to Group VII in the periodic table, or an alkoxy radical selected from ~~a~~ the group consisting of ~~among~~ OC_2H_5, OC_3H_7 and OC_4H_9.

8. (Original) The method as set forth in claim 1, wherein the electron donor is an organic acid ester compound represented by a formula of $R^6(COO)_nR^7_mR^8_{n-m}$, in which R^6 is saturated hydrocarbons, unsaturated hydrocarbons, alicyclic hydrocarbons or aromatic hydrocarbons having 1 to 18 carbons, R^7 and R^8, which are the same or different respectively

are an alkyl radical having 1 to 18 carbons, and n and m, which are the same or different, respectively are an integer of 1 or 2 ($m \leq n$).

9. (Original) The method as set forth in claim 1, wherein the steps (a2) and (a3) are carried at -30 to 100°C.

10. (Original) The method as set forth in claim 1, wherein a molar ratio of the magnesium complex and the titanium compound ranges from 1:0.5 to 1:10 and the step (b) is carried out at -20 to 100°C.

11. (Original) The method as set forth in claim 1, wherein a molar ratio of the magnesium complex and the electron donor ranges from 1:0.01 to 1:0.5.

12. (New) The method as set forth in claim 1, where steps (a1), (a2), and (a3) are completed before performing step (b), and step (b) is completed before performing step (c).